



## OPENING ACTUATOR FOR COLLET CHUCK

## SPECIFICATION

## FIELD OF THE INVENTION

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substitute  
specification*

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*10-26-06*

5 The present invention relates to collet chuck. More particularly this invention concerns a device for opening a collet chuck so a tool or workpiece can be removed from or knocked out of it.

## BACKGROUND OF THE INVENTION

10 A standard collet chuck for attachment to a mounting collar of a tool or workpiece has as described in German patent documents 4,138,974 of E. Brangs and F. Kuckelsberg and 299 22 642 and in US patent 5,865,578 a body formed centered on an axis with a forwardly open socket shaped to coaxially receive the mounting collar. A collet inside the body has a plurality of

15 jaws with front ends that project axially forward into the collar. The jaws can rock to move the front ends radially outward, or in some situations inward, to engage behind an axially forwardly directed shoulder of the collar and thereby lock the collar to the chuck body. Each jaw can pivot in the

20 body about a respective axis extending in a plane perpendicular to the axis and offset therefrom. An axially displaceable cam sleeve inside the body has a radially directed front cam surface engageable with front inner faces of the front ends of the jaws and a radially oppositely directed rear cam surface engageable

25 with rear faces of rear ends of the jaws. Thus, when displaced